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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/019,056	04/22/2002	Kiyoshi Demizu	155/50674	1734	
7590 10/15/2003			EXAM	EXAMINER	
Crowell & Moring			TRAN, THIEN F		
PO Box 14300					
Washington, DC 20044-4300			ART UNIT	PAPER NUMBER	
	•		2811		

DATE MAILED: 10/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		AX				
	Application No.	Applicant(s)				
Office Action Summer.	10/019,056	DEMIZU ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAU INC DATE of this communication and	Thien Tran	2811				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on	_·					
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 17-35 is/are pending in the application	٦.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>29</u> is/are allowed.						
6)⊠ Claim(s) <u>17-28 and 30-35</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
		Ved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 H S C & 110(a)	\ (d\ ac (f)				
a) All b) Some * c) None of:	priority under 55 C.C.C. § 119(a))-(u) or (i).				
<u></u>	have been received					
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
 Copies of the certified copies of the priori application from the International Burn 	ty documents have been receive eau (PCT Rule 17.2(a)).	d in this National Stage				
* See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
I) ⊠ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>6</u> .	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claim Objections

Claim 26 is objected to because of the following informalities: line 2, "a oxide film" should be --an oxide film--. Appropriate correction is required.

Claim 29 is objected to because of the following informalities: line 6, "the backside of the wafer" should be --the backside surface of the wafer--. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17-28 and 30-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 19-21, 23, 25, 27, 28 and 30-35 are incomplete and defective since they depend on canceled claims 1, 2, 6, 8, 10, 13 and 14.

Claim 17 recites the limitation "the backside surface" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 18 recites the limitation "the backside surface" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 22 recites the limitations "the whole backside surface" in line 2 and "the backside of the wafer" in line 6. There are insufficient antecedent basis for these limitations in the claim.

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Claim 24 recites the limitations "the backside" in line 2 and "the back side" in line 3. There are insufficient antecedent basis for these limitations in the claim.

Claim 26 recites the limitation "the whole area of the backside" in lines 3-4.

There is insufficient antecedent basis for this limitation in the claim

Claim 22 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: a relationship of a semiconductor wafer to the whole backside surface and a relationship of a wafer holding means to the whole backside surface. It is undefined and unclear which ones, the wafer or the wafer holding means has the whole backside surface.

Allowable Subject Matter

Claim 29 is allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reference A is being cited since it shows wafer thickness control during backside grind.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thien Tran whose telephone number is (703) 308-4108. The examiner can normally be reached on 8:30AM - 5:00PM Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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October 01, 2003

Thin MAN

Thien Tran
Patent Examiner
Technology Center 2800